

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. **(currently amended)** A method for producing a layer-like part ~~(16) in which,~~ said method comprising:

~~the part (16) is created on a substrate (12) by coating of the substrate (12), the substrate (12),~~ coating a substrate consisting of a shape memory alloy to produce a coated substrate;

~~subjecting the coated substrate (12) coated with the part (16) is subjected to a~~ temperature control in such a way that the substrate undergoes a change in shape on account of the a shape memory effect, wherein the temperature control comprises cooling or heating the part and the substrate to the same temperature; and

~~and the part (16) is separated~~ separating the part from the substrate band (12),

~~characterized in that~~ wherein the microstructure texture of the substrate ~~band~~ is transferred to the layer-like part by the ~~latter undergoing quasi-epitaxial growth of the part coated on the substrate.~~

2. **(currently amended)** The method as claimed in claim 1, characterized in that, ~~in the case of the substrate (12), the one-way effect is used by the substrate being deformed wherein~~ the substrate is deformed before the coating step, and then heated after the coating step in such a way as to achieve a one-way effect whereby that the deformed substrate goes over into its changes back to the substrate's undeformed shape.

3. **(currently amended)** The method as claimed in claim 1, characterized in that, ~~in the case of the substrate (12), the two-way effect is used by wherein the substrate being is~~ subjected to a temperature control before the coating step in such a way that it goes over into its one shape the substrate changes into one shape, and then the substrate being is subjected to temperature control after the coating step in such a way that it goes over into its other the substrate changes into a second shape.

4. **(currently amended)** The method as claimed in claim 3, characterized in that wherein the substrate (12) is alternately heated and cooled after the coating step in such a way that it the substrate alternately changes from one shape to another shape goes over into its one shape and its other shape.

5. **(withdrawn)** A production facility with a substrate band (12) for producing a layer-like part (16) in sheet form, the substrate band (12) being led through a creating device (17) for the part and a temperature-controllable separating device (15) to obtain the part, and the substrate band consisting of a shape memory alloy, characterized in that the creating device is intended for quasi-epitaxial growth of the layer-like part onto the substrate band.

6. **(withdrawn)** The production facility as claimed in claim 5, characterized in that the creating device is a facility for PVD coating or for galvanic coating.

7. **(withdrawn)** The production facility as claimed in claim 5, characterized in that the creating device (17) is preceded by a deforming device, in particular a stretching device (23), for the substrate band.

8. **(withdrawn)** The production facility as claimed in claim 5, characterized in that the creating device (17) is preceded by a temperature-controlling device (22) for the substrate band.

9. **(withdrawn)** The production facility as claimed in claim 5, characterized in that the substrate band (12) is configured as an endless belt circulating in the production facility.

10. **(withdrawn)** The production facility as claimed in claim 6, characterized in that the creating device (17) is preceded by a deforming device, in particular a stretching device (23), for the substrate band.

11. **(withdrawn)** The production facility as claimed in claim 6, characterized in that the creating device (17) is preceded by a temperature-controlling device (22) for the substrate band.

12. **(withdrawn)** The production facility as claimed in claim 6, characterized in that the substrate band (12) is configured as an endless belt circulating in the production facility.

13. **(withdrawn)** The production facility as claimed in claim 7, characterized in that the substrate band (12) is configured as an endless belt circulating in the production facility.

14. **(withdrawn)** The production facility as claimed in claim 8, characterized in that the substrate band (12) is configured as an endless belt circulating in the production facility.

15. **(new)** The method as claimed in claim 1, wherein the part consists of a high-temperature superconductor (HTSC).

16. (new) The method as claimed in claim 15, wherein the high-temperature superconductor is  $\text{YBa}_2\text{Cu}_3\text{O}_7$ .

17. (new) A method for producing a layer-like part, said method comprising:

coating a substrate consisting of a shape memory alloy to produce a coated substrate;

subjecting the coated substrate to a temperature control in such a way that the substrate undergoes a change in shape on account of a shape memory effect, wherein the temperature control comprises cooling or heating both sides of the coated substrate; and

separating the part from the substrate,

wherein the microstructure texture of the substrate is transferred to the layer-like part by quasi-epitaxial growth of the part coated on the substrate.

18. (new) The method as claimed in claim 11, wherein the substrate is deformed before the coating step, and then heated after the coating step in such a way as to achieve a one-way effect whereby the deformed substrate changes back to the substrate's undeformed shape.

19. (new) The method as claimed in claim 18, wherein the substrate is subjected to a temperature control before the coating step in such a way that the substrate changes into one shape, and then the substrate is subjected to temperature control after the coating step in such a way that the substrate changes into a second shape.

20. (new) The method as claimed in claim 18, wherein the substrate is alternately heated and cooled after the coating step in such a way that the substrate alternately changes from one shape to another shape.